

1. INDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Product Code:	Desiccant Indicating Capsule P1640
Application:	Desiccant for Packaging
Company:	Davis Schottlander & Davis Ltd Fifth Avenue, Letchworth Garden City, Herts SG6 2WD UK Tel: +44 (0)1462 480848 msds@schottlander.co.uk Fax: +44 (0)1462 482802 www.schottlander.com
Date:	18.11.2015 V1.0

2. HAZARD IDENTIFICATION

Not a dangerous substance according to GHS. This product does not need to be labelled in accordance with EU 1272/2008 Regulation. Not hazardous according to European Union Directives 67/548/EEC.

Potential Health Effects:

Eyes:NoneSkin:NoneIngestion:Ingestion is unlikely but if ingested blockage may occur. Get medical attention.Inhalation:NoneMedical Effects Generally Aggravated by Exposure:NoneChronic Effects/Carcinogenicity:NoneEnvironmental Hazards:Not hazardous

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component Name	CAS No.	% by	EC #	Annex 6
		Weight		Classifications
Synthetic amorphous	7631-86-9	100	231-545-4	None
silica gel (SiO ₂), silicon				
dioxide (amorphous)				

4. FIRST AID MEASURES

Eyes:	If exposed to the contents of the canister, rinse eyes well with water while lifting the eye lids. If irritation persists, consult a physician.
Skin:	If exposed to the contents of the canister, wash affected area with soap and water.
Ingestion:	Ingestion of the canister is unlikely, but if ingested, blockage may occur. Consult a physician
Inhalation:	If exposed to the contents of the canister, remove affected person to fresh air and get medical attention if necessary.
Notes to Physicia	n: Not applicable



5. FIRE FIGHTING MEASURES

Flammable Properties:	Not flammable
Flash Point:	Not applicable
Method:	Not applicable
Flammable Limits:	
Lower Flammability Limit:	Not applicable
Upper Flammability Limit:	Not applicable
Auto-ignition Temperature:	Not applicable
Hazardous Combustion Products:	Not applicable
Extinguishing Media:	Use extinguishing media that is appropriate for the surrounding fire. Silica gel is not combustible, but the packaging is combustible. Use an appropriate extinguishing method. Silica gel does not react with any extinguishing medium.
Fire Fighting Instructions:	Not combustible.
Unusual Fire and Explosion Hazards:	None
Explosion Data:	Not sensitive to statistic discharge.
	Not sensitive to mechanical impact.

6. ACCIDENTAL RELEASE MEASURES

Spill:

Sweep up and place the spilled material in a waste disposal container. Avoid raising dust. Ventilate area and prevent skin and eye contact. See section 8 for personal protection equipment. Refer to section 13 for disposal information. Wash with soap and water after handling.

7.	HANDLING AND STORAGE	
	Handling:	Avoid raising dust and minimize the contact between worker and the contents of the canister. Practice good hygienic work practices.
	Storage:	Store in a cool, dry location. Keep in sealed containers away from moisture. The silica gel will readily absorb moisture.
	incompatibilities:	Fluorine, oxygen alluoride, chloride trifluoride.
8.	EXPOSURE CONTROLS / PERSONAL PROTECTION	
	Engineering Controls:	Not required
	Respiratory Protection:	Not required
	Skin Protection:	Light cotton gloves will protect against abrasion and drying of the skin.
	Eye Protection:	Not required
	Exposure Limits	
	Component Name	Work place Exposure Limits ACGIH TLV
	Silica gel	United Kingdom
		18.0 mg / m3 STEL
		(inhalable dust)
		7.2 mg / m3 STEL
		(respirable dust)



Component Name	Work place Exposure Limits	ACGIH TLV
	6.0 mg / m3 TWA	
	(inhalable dust)	
	2.4 mg / m3 TWA	
	(respirable dust)	
	Austria	
	4.0 mg / m3	
	MAK (inhalable fraction)	
	Czech Republic	
	TWA	
	.1 mg / m3 A (respirable fraction)	
	TWA	
	4.0 mg / m3	
	(regulated under amorphous silica)	
	Estonia	
	TWA 2.0 mg / m3	
	(respirable dust)	
	Germany	
	MAK values	
	4.0 mg / m3 (inhalable fraction)	
	TWA	
	4.0 mg / m3 (inhalable fraction)	
	Ireland	
	TWA 6.0 mg / m3 (total inhalable dust)	
	TWA 2.4 mg / m3 (respirable dust)	
	Latvia	
	TWA 1 mg / m3	
	Lithuania	
	Concentration Limit Values	
	30 minutes	
	MAC .02 mg / m3	
	Slovak Republic	
	TWA 4.0 mg / m3 (total aersol)	
	Slovenia	
	TWA 4.0 mg / m3 (inhalable fraction)	
	Croatia	
	ELV 5.0 mg / m3 (Hazard class III, dust as SiO2)	
	Norway	
	SIEL 3.0 mg / m3 (respirable dust)	
	I WA 1.5 mg / m3 (respirable dust)	
	Switzerland	
	MAK 4.0 mg / m3 (inhalable)	
	MAK .3 mg / m° (respirable)	

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear canister Odor: None Boiling Point: 4046° F (2230° C) Silica gel Physical State: Canister with solid granules inside Vapor Density: No data available Odor threshold: None Melting Point: 3110° F (1710° C) Silica gel PH: No data available



Solubility: Insoluble in water Specific Gravity: 2.1 Silica gel Odor Threshold: No data available Flash Point:Not applicable (Method): Not applicable Upper Flammability Limits: No data available Explosive Properties: No data available Partition Coefficient: n-octanol/water No data available Miscibility: No data available Other Solubilities: No data available Decomposition temperature: No data available Vapor Pressure: No data available Evaporation Rate: No data available Coefficient of water/oil distribution: No data available Flammable Limits: No data available Lower Flammability Limits: No data available Oxidizing Properties: Not an oxidizer Auto-ignition Temperature: No data available Viscosity: No viscosity Evaporation Rate: No data available Water solubility: Insoluble Conductivity: No data available

10. STABILITY AND REACTIVITY

Stability:StableConditions to avoid:MoistuIncompatibility:FluorinHazardous Decomposition Products:NoneHazardous Polymerization:Will notReactivity:Fast addition

Moisture and high humidity environments. Fluorine, oxygen difluoride, chlorine trifluoride None Will not occur Fast adsorption of water may cause the silica gel to liberate some heat. Will not occur

Possibility of hazardous reactions:

11. TOXICOLOGY INFORMATION

Toxicity Data for Silica gel (amorphous):

Oral LD50 rat: > 5000 mg / kg; Inhalation LC50 rat > 2.2 mg / L / 1 hour: Dermal LD50 Rabbit >2000 mg / kg

Animal Toxicology:

Tests for DOT Hazard classification (Tests Conducted on finely ground silica gel)

1 - hour LC50 (rat) > 2 mg / l

48 - hour oral LD50 (rat) est. > 31,600 mg / kg

48 - hour dermal LD50 (rabbit) est. > 2,000 mg / kg

Considered an ocular irritant

Human Toxicology: Silica gel is a synthetic amorphous silica not to be confused with crystalline silica.

Epidemiological studies indicate low potential for adverse health effects. In the activated form, silica gel acts as a desiccant and can cause a drying irritation of the mucous membranes and skin in cases of severe exposure. Multisorb Technologies knows of no medical conditions that are abnormally aggravated by exposure to silica gel. The primary route of entry is inhalation of dust.

12. ECOLOGICAL INFORMATION

Environmental: Not hazardous

Ecotoxicity:

*Freshwater Algae Data 72 hour EC50 Selenastrum capricomutum: 440 mg / L

- *Freshwater Fish Species Data 96 hour LC50 Brachydanio rerio: 5000 mg / L (static)
- *Water Flea Data 48 hour EC50 Ceriodaphnia dubia: 7600 mg / L
- * Silica, amorphous



13. DISPOSAL CONSIDERATIONS

Disposal Information: Refer to Community provisions relating to waste. National or regional provisions may be in force. Used product may have different hazards or properties from the original product. This SDS does not therefore apply to spent / used products. Contaminated packaging should be disposed of as unused product.

14. TRANSPORT INFORMATION

RID / ADR:	Not classified as a hazardous. Not regulated.
IMDG:	Not classified as a hazardous. Not regulated.
IATA:	Not classified as a hazardous. Not regulated.
Environmental hazard:	No hazard

15. **REGULATORY INFORMATION**

This substance is not listed in the Annex 6 of GHS. **Inventory status:** All components are on the TSCA, EINICS / ECINCS & DSL.

16. FURTHER INFORMATION

The data given above covers exclusively the safety requirements of the product(s) and is based on our current knowledge and experience. It does not signify any warranty with regards to the products properties. This product is only supplied for specific uses in dentistry and must be used in accordance with the directions for use.